



Missouri
Department of
Natural Resources

Little Bean Marsh Conservation Area Wetland Monitoring Station

Location/Description

- Platte County, Missouri
- Area managed by Missouri Department of Conservation
- Missouri River floodplain oxbow, slough and marsh complex
- Period of record – April 28, 2010 to present

Monitoring Station

- Data are recorded and transmitted using a Sutron Satlink 2 datalogger.
- Data are transmitted hourly to give near real-time conditions.
- Station is powered by a 12 volt deep cycle battery recharged by solar panel (photovoltaic).
- Monitoring instruments mounted on a 7 ft. steel platform.

Weather Instrumentation

- Tipping bucket rain gauge
- Air temperature/relative humidity sensor
- Pyranometer (solar radiation)
- Barometer
- Wind speed/direction sensor

Hydrologic Monitoring

- The groundwater monitoring well is installed to a depth of 20 feet. Fluctuations in groundwater are measured with a submersible pressure transducer housed inside a drive-point well. The well casing is 1 1/4" galvanized steel pipe with the bottom 4 ft. containing the screened opening.
- Surface water stage in the adjacent slough is measured with a submersible pressure transducer housed in 1 1/4" PVC conduit.